# NEW!

# SPECTROLINE® SB-100Y

## Semiconductor Wafer Inspection Lamp

Surface contamination of wafers during the semiconductor manufacturing process is a major cause of costly wafer rejection. This contamination comes from a wide variety of sources, including the air, the photoresist, wash solutions, process gases, and improper handling. It can occur at any time during fabrication.

The new Spectroline SB-100Y Semiconductor Wafer Inspection Lamp is the ideal tool for fast, non-destructive detection of particulate matter, often too small to be seen using other inspection techniques. The lamp can efficiently detect contamination early in manufacturing, saving valuable production time and unnecessary expense. To maintain a low wafer rejection rate, this unit was designed for use prior to all of the following stages of the fabrication process: layer diffusion, photoresist application, UV etching, photoresist removal, and final QC inspection.

This lamp has a 100-watt bulb which emits strong mercury lines at 546, 577, and 579nm. A special yellow filter blocks emission of wavelengths shorter than 500nm, protecting against activation of the photoresist. This brilliant light provides high contrast illumination to maximize visibility, allowing the inspector to see surface particles as small as 10 microns.

The SB-100Y has a compact, lightweight lamp head with a stay-cool hand grip. A tempered, crack-resistant filter dramatically reduces replacement costs. The lamp head may be rotated 360° in both horizontal and vertical positions while mounted on the transformer base for bench use, or detaches easily for hand-held use. It can also be permanently mounted in wafer fabrication and testing areas. The transformer has an isolated secondary winding with a special heat-resistant, 3-wire cord to reduce shock hazard. Tough and dependable, both the lamp head and base are housed in rugged aluminum.

The SB-100Y can be equipped with a choice of two bulbs, each with a rated life of 5,000 hours. The spot bulb provides a concentrated beam of light, while the flood produces a broader, lower intensity beam. The lamp is UL listed and meets OSHA safety standards.

| Model | Description |
|---|---|
| SB-100Y | LAMP, Semiconductor Wafer Inspection, Complete with Yellow Filter, 100-Watt Bulb, 8 Foot (2.4m) Primary Cord and 8 Foot Secondary Cord. Lamp Head 2½ lbs. (1.1kg), Transformer Base 11¼ lbs. (5.1kg). |
| 2F475Y | Filter, Replacement |
| 100S | Spot Bulb, Replacement |
| 100CF | Flood Bulb, Replacement |

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